



# SAFETY DATA SHEET

## 1. Identification

<b>Important information</b>	*** This Safety Data Sheet is only authorised for use by HP for HP Original products. Any unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action being taken by HP. ***	
<b>Name of the substance or mixture (trade name)</b>	CP816Series	
<b>Synonyms</b>	HP HDR230 Yellow Scitex Ink Cartridge	
<b>Major recommended uses for the substance or mixture</b>	Inkjet printing	
<b>Specific restrictions for use of the substance or mixture</b>	Not available.	
<b>Manufacturer/Importer/Distributor information</b>		
<b>Company identification</b>	HP Colombia SAS Carrera 7 No 99-53 Torre B Pisos 7 Bogota, Colombia	
<b>Telephone</b>	(57) 1 639 0000	
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<b>(Toll-free within the US)</b>	1-800-474-6836	
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## 2. Hazards identification

### Classification of the substance or mixture

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Acute toxicity, oral	Category 5
	Acute toxicity, dermal	Category 5
	Skin corrosion/irritation	Category 2
	Sensitization, skin	Category 1
	Reproductive toxicity (fertility, the unborn child)	Category 2
	Specific target organ toxicity, repeated exposure	Category 1 (liver, respiratory system)
<b>Environmental hazards</b>	Hazardous to the aquatic environment, long-term hazard	Category 2

### GHS labeling elements, including precautionary statements

#### Hazard symbol(s)



#### Signal word

Danger

#### Hazard statement(s)

Suspected of damaging fertility. Suspected of damaging the unborn child. May be harmful if swallowed. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

### Precautionary statement(s)

<b>Prevention</b>	Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Obtain special instructions before use. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.
<b>Response</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical attention/advice. Call a POISON CENTER/doctor/physician if you feel unwell. Get medical attention/advice if you feel unwell. Collect spillage. Wash contaminated clothing before reuse.
<b>Storage</b>	Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards which do not result in classification** Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

**Supplemental information** None.

### 3. Composition/information on ingredients

#### Mixture

Common chemical name or technical name	CAS number	Concentration or concentration range
Dipropylene Glycol Diacrylate	Proprietary	<25
Acrylic acid ester	Proprietary	<20
Acrylate ester 3	Proprietary	<15
Glycerol, propoxylated, esters with acrylic acid	Proprietary	<15
Acrylic acid, Monoalkyl Ester	Proprietary	<10
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	Proprietary	<5
Substituted Phosphine Oxide	Proprietary	<5
Vinylcaprolactam	Proprietary	<5
1,6-Hexanediol Diacrylate	13048-33-4	<1
Vinylester resin	Proprietary	<1

### 4. First-aid measures

#### First-aid measures

<b>Inhalation</b>	Move to fresh air. If symptoms persist, get medical attention.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
<b>Eye contact</b>	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.
<b>Ingestion</b>	If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.

**Most important symptoms/effects, acute and delayed** Not available.

**Notes to physician** Not available.

### 5. Fire-fighting measures

#### Means of fire extinguishing

<b>Suitable extinguishing media</b>	Dry powder. Carbon dioxide (CO2). Water may be ineffective.
<b>Unsuitable extinguishing media</b>	Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical** Not available.

**Special fire fighting procedures** Avoid runoff into storm sewers and ditches which lead to waterways.

**Protective measures taken by firefighting crews** Not available.

## 6. Control measures for spills and leaks

### Personal precautions, protective equipment and emergency procedures

**To be taken by those who are not involved in rendering emergency services** Wear appropriate personal protective equipment. Do not touch or walk through spilled material.

**To be taken by those who are involved in rendering emergency services** Not available.

**Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.

**Methods and materials for containment and cleaning up** Not available.

**Other issues relating to spills and releases** Soak up with inert absorbent material. Dispose of in compliance with federal, state, and local regulations.

## 7. Handling and storage

**Precautions for safe handling** Avoid contact with skin, eyes and clothing.

**Conditions for safe storage, including any incompatibilities** Keep away from excessive heat or cold. Do not store in direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition. Opaque, high density polyethylene (HDPE) containers are recommended for shipping and storage.

## 8. Exposure controls/personal protection

### Control parameters

**Occupational exposure limits** No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** Exposure limits have not been established for this product.

**Appropriate engineering controls** Not available.

### Personal protective measures

**Eyes and face protection** Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Recommended gloves: Nitrile 6 mil minimum thickness.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

**Thermal hazards** Not available.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice. Do not get this material in your eyes, on your skin, or on your clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse. Keep away from food and drink.

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.

**Form** Liquid.

**Color** Yellow

**Odor** Characteristic.

**Odor threshold** Not available.

**pH** 6.8 - 7.2 Metler Toledo pH Meter. Temperature 25°C

**Melting point/freezing point** Not available.

**Initial boiling point and boiling temperature range** Not available.

**Flash point** > 285.8 °F (> 141.0 °C) Pensky-Martens Closed Cup EPA Method 1020 Estimated

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

**Upper/lower flammability or explosive limits**

<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	12.5 - 13.5 cP Cone and Plate Rheometer, Temperature 50°C. C60/1° Sensor. Values recorded at 4000 1/s.
<b>Other physical and chemical parameters</b>	
<b>VOC</b>	18 g/l Method 24/ASTM D5409-93 Estimated

**10. Stability and reactivity**

<b>Reactivity</b>	Not available.
<b>Chemical stability</b>	Stable under normal storage conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization can occur with decreased inhibitor content.
<b>Conditions to avoid</b>	Exposure to sunlight.
<b>Incompatible materials</b>	Incompatible with strong bases and oxidizing agents. alkaline metals
<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**11. Toxicological information**

**Information on likely routes of exposure**

<b>Inhalation</b>	Inhalation may result in mild irritation to the respiratory system.
<b>Skin contact</b>	Causes skin irritation. May cause sensitization by skin contact.
<b>Eye contact</b>	Contact with eyes may result in mild irritation.
<b>Ingestion</b>	Ingestion is not a likely route of exposure.
<b>Symptoms</b>	Not available.

**Acute toxicity** May be harmful if swallowed. May be harmful in contact with skin.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Vinylcaprolactam		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	1700 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 1.6 mg/l
<b>Oral</b>		
LD50	Rat	1114 mg/kg

**Skin irritation and corrosion** Causes skin irritation.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met. Non-corrosive. Not a known irritant. (OECD 437)

**Respiratory or skin sensitization**

<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.
<b>Skin sensitization</b>	May cause sensitization by skin contact.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Toxic to reproduction</b>	Suspected of damaging the unborn child. Suspected of damaging fertility.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Other information</b>	Complete toxicity data are not available for this specific formulation

## 12. Ecological information

**Aquatic toxicity** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This product has not been tested for ecological effects.

### Ecotoxicity

Components	Species	Test Results
<b>Acrylic acid ester</b>		
<i>Acute</i>		
	EC10	Desmodesmus subcapitatus 0.71 mg/l, 72 h (DIN 38412 L9)
	EC50	Desmodesmus subcapitatus 4.44 mg/l, 72 h (DIN 38412 L9)
	LC50	Leuciscus idus 10 mg/l, 96 h (DIN 38 412)
	NOEC	Desmodesmus subcapitatus 0.71 mg/l, 72 h (DIN 38412 L9)
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna 1.21 mg/l, 48 h (Directive CE 79/831/CEE, Annex V, Part C)
<b>Acrylic acid, Monoalkyl Ester</b>		
<i>Acute</i>		
	ErC50	Pseudokirchneriella subcapitata > 0.274 µg/l, 72 h (OECD 201)
	LC50	Leuciscus idus 460 mg/l, 96 h (DIN 38 412, part L 15, 1982)
	NOEC	Leuciscus idus 215 mg/l, 96 h (DIN 38 412, part L 15, 1982)
<i>Chronic</i>		
	LOEC	Daphnia magna > 0.25 µg/l, 21 d (OECD 211)
<b>Aquatic</b>		
<i>Chronic</i>		
Crustacea	NOEC	Daphnia magna 0.25 µg/l, 21 d (OECD 211)
Fish	LOEC	Danio rerio > 1 µg/l, 36 d (OECD 210)
<b>Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide</b>		
<i>Acute</i>		
	EC10	Pseudokirchneriella subcapitata 1.56 mg/l, 72 h (OECD 201)
	EC50	Pseudokirchneriella subcapitata > 2.01 mg/l, 72 h (OECD 201)
	LC50	Cyprinus carpio 1.4 mg/l, 96 h (OECD 203)
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna 3.53 mg/l, 48 h (OECD 202)
<b>Substituted Phosphine Oxide</b>		
<i>Acute</i>		
	EC50	Desmodesmus subspicatus > 260 µg/l, 72 h (OECD 201)
	LC50	Danio rerio > 90 µg/l, 96 h (OECD 203)
	NOEC	Desmodesmus subspicatus > 260 µg/l, 72 h (OECD 201)
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna > 1175 µg/l, 48 h (OECD 202)

Components	Species	Test Results
<i>Chronic</i> Crustacea	NOEC Daphnia magna	>= 8.1 µg/l, 21 d (OECD 211)
Vinylester resin <i>Acute</i>	EC50 Pseudokirchneriella subcapitata	105 mg/l, 72 h (OECD 201)
	LC50 Cyprinus carpio	> 0.082 mg/l, 96 h (OECD 203)
	NOEC Pseudokirchneriella subcapitata	29 mg/l, 72 h (OECD 201)
<b>Aquatic</b> <i>Acute</i> Crustacea	EC50 Daphnia magna	> 16 mg/l, 48 h (OECD 202)
	NOEC Daphnia magna	> 16 mg/l, 48 h (OECD 202)
<i>Chronic</i> Crustacea	EC10 Daphnia magna	> 0.51 mg/l, 21 d (OECD 211)
	NOEC Daphnia magna	> 0.51 mg/l, 21 d (OECD 211)
Fish	EC10 Pimephales promelas	0.43 mg/l, 33 d (OECD 210)
	NOEC Pimephales promelas	0.25 mg/l, 33 d (OECD 210)
<b>Persistence and degradability</b>	Not available.	
<b>Bioaccumulative potential</b>	Not available.	
<b>Partition coefficient n-octanol / water (log Kow)</b>	Not available.	
<b>Bioconcentration factor (BCF)</b>	2.34, (EPA Epiwin (v.4.11))	
Acrylic acid, Monoalkyl Ester	72, (JIS K 0102-1986, 71 - Kanpogyo No .S, Yakuhatsu No .	
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	615, 49-Kikyoku No . 392, MITI/MHW Chemical Substance	
	Control Law, Japan)	
Substituted Phosphine Oxide	5, (similar to OECD 305 C)	
<b>Mobility in soil</b>	Not available.	
<b>Other adverse effects</b>	Not available.	

### 13. Considerations on final disposal

#### Recommended methods for final destination

<b>Residual waste</b>	Not available.
<b>Contaminated packaging</b>	Not available.
<b>Local disposal regulations</b>	Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Ensure collection and disposal with an appropriately licensed waste contractor.

### 14. Transport information

#### DOT

<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates), MARINE POLLUTANT
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>Special precautions for user</b>	Not available.

DOT Supplemental Information DOT Classification only applies to shipments within the US and Puerto Rico.

#### IATA

<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)
<b>Transport hazard class(es)</b>	
<b>Class</b>	9

**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards** Yes  
**Special precautions for user** Not available.

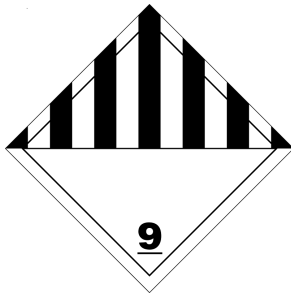
**IMDG**

**UN number** UN3082  
**UN proper shipping name** Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates), MARINE POLLUTANT  
**Transport hazard class(es)**  
**Class** 9  
**Subsidiary risk** -  
**Packing group** III  
**Transport hazard class(es)**  
**Marine pollutant** Yes  
**EmS** F-A, S-F  
**Special precautions for user** Not available.

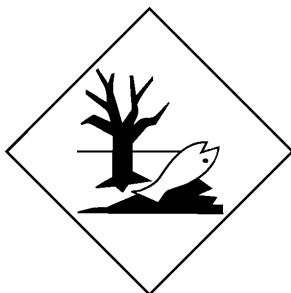
**ADR**

**UN number** UN3082  
**UN proper shipping name** Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)  
**Transport hazard class(es)**  
**Class** 9  
**Subsidiary risk** -  
**Hazard No. (ADR)** Not available.  
**Tunnel restriction code** Not available.  
**Packing group** III  
**Environmental hazards** Yes  
**Special precautions for user** Not available.

**ADR; DOT; IATA; IMDG**



**Marine pollutant**



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## 15. Regulatory information

**Federal regulations**

**Colombia. Controlled Substances (Resolution No. 009 of 1987 nationally regulating the transport & use of substances in subparagraph. f) of article 20 of Law 30 of 1986, as amended)**

Not listed.

**Venezuela. Chemical Precursors (Official Gazette No. 34.741, List I & II)**

Not regulated.

**International regulations**

All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

**Montreal Protocol**

Not applicable.

**Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Kyoto protocol**

Not applicable.

**Basel Convention**

Not applicable.

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**16. Other information**

**Significant information, yet not specifically related to the previous sections** Not available.

**Revision information**

3. Composition / Information on Ingredients: Disclosure Overrides

**Disclaimer**

This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

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**Explanation of abbreviations**

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds